

**ABSTRACT**

A unit for estimating voltage drop 23a-1 estimates voltage drop of a battery terminal when maximum current is continuously supplied at high rate discharge. A unit for estimating residual discharge capacity 23a-2 estimates  
5 residual discharge capacity of the battery for allowing the maximum current to be continuously supplied to a load by subtracting the undischageable electric charge calculated from the voltage drop estimated by the unit for estimating voltage drop 23a-1 from the dischargeable charge in any state of charge.